

1       **50704/KMO/B583**

**ABSTRACT OF THE DISCLOSURE**

5           Mutants of leucine dehydrogenase sequences, formate dehydrogenase sequences and  
galactose oxidase sequences are provided. An amino acid sequence that is a mutant of a  
leucine dehydrogenase sequence as described in SEQ ID 2, or its substantial equivalent,  
contains at least one mutation selected from the group consisting of F102S, V33A, S351T,  
10       N145S and like mutations in substantially equivalent sequences. An amino acid sequence that  
is a mutant of a formate dehydrogenase sequence as described in SEQ ID 1, or its substantial  
equivalent, contains at least one mutation selected from the group consisting of D195S,  
Y196H, K356T and like mutations in substantially equivalent sequences. An amino acid  
15       sequence that is a mutant of a galactose oxidase sequence as described in SEQ ID 3, or its  
substantial equivalent, contains at least one mutation selected from the group consisting of  
N25Y, T94A, D216N, R217C, M278T, Y329C, Q406R, Q406L, V492A, V494A, N521S,  
N535D, T549I, S567T, T578S and like mutations in substantially equivalent sequences.  
Deoxyribonucleic acid molecules containing DNA sequences encoding these mutants are also  
20       provided.

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